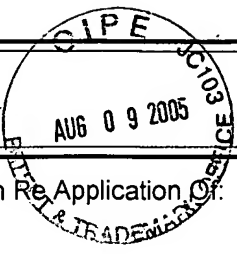


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TRANSMITTAL LETTER
(General - Patent Pending)

Docket No. **BAO-10002/03**

PCW

In Re Application Of: **Oded Ben-Arie**

| Application No. | Filing Date | Examiner | Customer No. | Group Art Unit | Confirmation No. |
|-----------------|-------------|-------------------|--------------|----------------|------------------|
| 10/027,094 | 12/20/2001 | Jennifer A. Stone | 25006 | 2636 | '9695 |

Title: **HEAD MOUNTED OPTICAL DEVICE DESIGNED TO PROVIDE A PILOT WITH|**
PRIMARY FLIGHT DISPLAY IMAGE

TO THE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE:

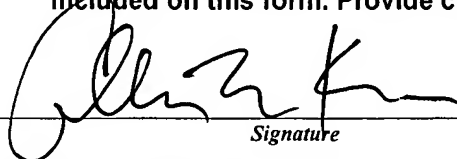
Transmitted herewith is:

Revised Appeal Brief (in triplicate)

in the above identified application.

- ☒ No additional fee is required.
- ☐ A check in the amount of _____ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. **07-1180** as described below.
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Signature

Dated: August 9, 2005

Allen M. Krass, Reg. No. 18,277\
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248-647-6000

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BOARD OF APPEALS AND INTERFERENCES



Applicant: Oded Ben-Arie

Serial No.: 10/027,094

Group Art Unit: 2636

Filing Date: December 20, 2001

Examiner: Jennifer A. Stone

For: HEAD MOUNTED OPTICAL DEVICE DESIGNED TO PROVIDE A
PILOT WITH PRIMARY FLIGHT DISPLAY IMAGE

REVISED APPEAL BRIEF

Mail Stop Appeal Brief – Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Order Returning Undocketed Appeal to the Examiner mailed July 20, 2005, Appellant submits the following revised Appeal Brief.

I. Real Party in Interest.

The real party in interest in this case is Oded Ben-Arie, Applicant and Appellant.

II. Related Appeals and Interferences.

There are no appeals or interferences which will directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

III. Status of Claims.

This application was originally filed with three (3) claims. By an amendment dated March 9, 2004, claim 1, the sole independent claim, was amended. Claims 1-3, all the claims in the application, are under appeal.

IV. Status of Amendments Filed Subsequent to Final Rejection.

No after-final amendments have been filed.

V. Summary of Claimed Subject Matter.

Claim 1, the sole independent claim, is directed to a system for providing a pilot of an airplane equipped with an Electronic Flight Instrument System (EFIS) of the type 28 illustrated on (page 6, lines 10 and 11 and page 6, lines 20-21, Figure 1) data output port 12 (page 6, lines 10 and 11, Figure 3) with a display of primary flight instruments that can be viewed while the pilot's eyes are focused at infinity through the aircraft windshield, comprises a computer 14 (page 6, lines 11-13, lines 18-20, Figure 3) means for connecting the computer 14 to the data output port 12 and an eyeglass mounted, clip-on, display 20, (lines 13-15, Figures 2 and 3) operative to receive the output of the computer, the computer being operative to process the information from the electronic flight instrument system outlet port into a single display, focused at infinity, which incorporates outputs from all of the principal flight instruments.

Claim 2 adds the limitation that the display 20 (lines 13-15, Figures 2 and 3) is in the form of a primary flight display.

Claim 3 adds the limitation that the eyeglass mounted display 22 (lines 15-18, Figure 2) constitutes a liquid crystal display 24 (lines 15-18, Figure 2).

VI. Grounds of Rejection to be Reviewed on Appeal.

Claims 1-3 stand rejected under 35 U.S.C. §103(a) over Schoolman (U.S. 5,281,957) as set forth in the Office Action mailed May 17, 2004.

VII. Concise Summary of the Invention.

This invention relates to a system for providing the pilot of an aircraft equipped with an Electronic Flight Information System (EFIS) and an output port on the aircraft panel for the EFIS information, for use in maintenance, with a heads-up display of the EFIS panel, focused at infinity. This allows the pilot to determine the information contained in the EFIS display while looking through the windshield of the aircraft without refocusing his eyes as is required when viewing instruments on the instrument panel. The system of the present invention includes a computer 14 (page 6, line 11) connected to an EFIS port 12 on the instrument panel 10 (page 6, lines 11 and 12). The computer formats an output and provides it in a form focused at infinity to a clip-on display 20 (page 6, lines 14 and 15; item 20 Figures 2 and 3). The display 20 is adaptable for eyeglass mounting in a clip-on fashion (page 6, lines 15-18). The computer processes the information from the port 12 into a single display, focused at infinity, which incorporates outputs from all the principal flight instruments (page 6, lines 17-19).

VIII. Concise Statement of Issues Presented for Review.

Are claims 1-3 obvious under 35 U.S.C. §103(a) over Schoolman (U.S. 5,281,957) in view of Kubik (U.S. 4,753,514) and Lewis (U.S. 4,028,725)?

IX. Grouping of Claims for Each Ground of Rejection Which Appellant Contends.

Appellant believes that there is only a single group of claims requiring consideration in this appeal.

X. Argument.

All of the claims were rejected under 35 U.S.C. §103 over the combination of Schoolman in view of Kubik and Lewis. In rejecting claims under 35 U.S.C. §103, the Examiner must provide a reason why one having ordinary skill in the pertinent art would have been led to modify the prior art or to combine references, to arrive at Appellant's claimed invention. There must be something in the prior art that suggests the combination, other than the hindsight gained from knowledge that the inventor chose to combine these particular things in this particular way. *Uniroyal v. Rudkin-Wiley Corp.*, 437 F.2d 1044, 1051, 5 USPQ2d 1434, 1438 (Fed. Cir. 1988). The Examiner is also required to make specific findings on the suggestion to combine prior art references. *In re Dembiczak*, 175 F.3d 994, 1000-01, 50 USPQ2d 1614, 1617-19 (Fed. Cir. 1999).

Schoolman discloses an eyeglass-mounted display which can accept information related to an aircraft navigation source such as a LORAN or a GPS receiver. The navigation information can be displayed directly to the pilot in a heads-up fashion. The Examiner recognizes that Schoolman limits the display to navigation equipment rather than the principal flight instruments. Lewis is cited as showing an entire cockpit instrument panel displayed on a helmet. The display is illustrated in Figure 9B of Lewis. Kubik is cited for the disclosure of a display screen that may be clipped onto a pair of eyeglasses.

The information displayed in the present invention is neither the entire instrument panel of an aircraft as disclosed in Figure 9B of Lewis nor a navigation instrument such as disclosed in Schoolman but is rather the Electronic Flight Instrument System data, as illustrated in Figure 1. As discussed in the specification, the virtue of this approach is that it provides a pilot with a condensed and readily scanned summary of the flight information which he needs and it is

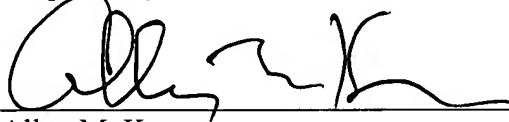
available from an output port on the instrument panels of many planes. These output ports are not provided to generate a display to the pilot. Rather, they are provided for maintenance purposes. Independent claim 1 emphasizes this distinction and the claim is clearly limited to use with an airplane equipped with an EFIS data output port. None of the cited art discloses an aircraft equipped with such a port although such ports are known to exist and are probably disclosed by manufacturers' literature. As stated, these ports are intended for maintenance purposes and the Appellant is unaware of any suggestion of use of these ports for a display purpose.

The concept of feeding the information from the port to a computer which formats it into a display focused at infinity, all as defined in claim 1, is certainly not disclosed or suggested by any of the references. The broad idea of using the information from the EFIS port for display purposes in a head-up manner is not disclosed or suggested by any of the cited references. Even if a reference disclosing an aircraft panel with an EFIS output port, which the Appellant recognizes is old, were added to the combination, the idea of using that information to generate a head-up display to a clip-on device for eyeglasses would not be suggested.

It is respectfully submitted that the cited references fail to disclose or suggest the combination for several reasons: (1) they do not disclose or suggest an EFIS port on the instrument panel of an aircraft; and (2) they do not suggest or disclose the use of the EFIS information to generate a head-up display for the pilot.

It is respectfully submitted that the cited references, alone or with the admittedly old art, do not rise to the level required by *Graham v John Deere*, 383 US 1, 148 USPQ 459, to establish the obviousness of the present invention.

Respectfully submitted,



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Janice Burkhardt

APPENDIX A

CLAIMS ON APPEAL

1. A system for providing a pilot of an airplane equipped with an Electronic Flight Instrument System (EFIS) data output port with a display of primary flight instruments that can be viewed while the pilot's eyes are focused at infinity through the aircraft windshield, comprising:

a computer;

means for connecting the computer to said data output port on the aircraft's instrument panel; and an eyeglass mounted, clip-on, display operative to receive the output of the computer,

the computer being operative to process the information from the electronic flight instrument system outlet port into a single display, focused at infinity, which incorporates outputs from all of the principal flight instruments.

2. The system of claim 1 wherein the display is in the form of a primary flight display.

3. The system of claim wherein the eyeglass mounted display constitutes a liquid crystal display.

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APPENDIX B

EVIDENCE

None

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APPENDIX C
RELATED PROCEEDINGS

None